

**USDA Climate Hubs Purpose:** Communicate information and tools so managers can make decisions on working landscapes that incorporate science-based climate change information.

**Outcome:** Sustainable and productive forests, rangelands, and agricultural lands in all ownerships that are better adapted to the changing climate.

The screenshot shows the USDA Climate Hubs Pacific Northwest Hub website. The header includes the USDA logo, the text "United States Department of Agriculture CLIMATE HUBS", and "PACIFIC NORTHWEST HUB". A search bar is located on the right. Below the header is a navigation menu with links: "Climate Hubs", "Partners", "Regional Assessments", "Regional Data & Research", "Educational Materials", and "About Us". The main content area features a "Northwest Hub Welcome Note" stating that the hub covers Alaska, Idaho, Oregon, and Washington, and aims to deliver science-based knowledge to farmers, ranchers, forest landowners, and Native American tribes. Below the note is a large image of a snow-covered mountain landscape. To the right of the image is a map of the Pacific Northwest region, highlighting the states of Alaska, Idaho, Oregon, and Washington, with a specific location marked in Oregon. Below the map is a section titled "Popular Topics:" with links to "Northwest Vulnerability Assessment", "What is forest adaptation?", "Tools", and "Intermountain Adaptation Partners".

USDA United States Department of Agriculture CLIMATE HUBS

PACIFIC NORTHWEST HUB

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Home » Northwest Hub

**Northwest Hub Welcome Note**

The Northwest Climate Hub encompasses Alaska, Idaho, Oregon, and Washington. The purpose of the Hub is to deliver science-based knowledge and practical information to farmers, ranchers, forest landowners, and Native American tribes that will help them to adapt to climate change.

Learn how changing snowpack and snowmelt can impact agriculture and forests.

**Northwest Hub**

Popular Topics:

- > Northwest Vulnerability Assessment
- > What is forest adaptation?
- > Tools
- > Intermountain Adaptation Partners

**Website:**

<https://www.climatehubs.oce.usda.gov/northwest>

- Vulnerability assessments
- Educational resources
- News and Events
- Decision Support systems
  - Tools
  - Data visualization

## **Anticipated Impacts to Agriculture in the Region:**

- Higher temperatures
- Decreased chilling hours
- Greater severity of droughts and floods
- Less water availability (soil moisture as well as water for irrigation- reductions in snowpack)
- Pests/Disease dynamics- changes will impact both yield/productivity and product quality

## **Adaptation Strategies:**

- **Dry farming in Western OR**
- Focus on soil organic carbon/soil health through tillage/green manure/biochar
- Changes to irrigation efficiency
- Diversifying cropping systems
- New genetics of livestock (heat stress major issue)
- Altering IPM strategies
- New varieties (e.g., wine grapes/fruit & nut trees)

